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**IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE**

PATENT APPLICATION

Applicants: Carsten ROSENOW, Thomas GINGERAS

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Confirmation No.: 3725

Examiner: Shubo (Joe) ZHOU

Title: **METHODS AND COMPUTER SOFTWARE PRODUCTS FOR
TRANSCRIPTIONAL ANNOTATION**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

PROPOSED CLAIM AMENDMENTS FOR DISCUSSION WITH EXAMINER ZHOU

What is claimed is:

1. (amended) A method for identifying a transcribed region of interest of a genome comprising:

a) Hybridizing a plurality of nucleic acid probes with a nucleic acid sample, wherein said nucleic acid sample comprises transcripts from said genome, wherein said probes are targeting an area of said genome; and

b) Identifying said transcribed region as a region of said genome where hybridization of all consecutive probes

targeting said region are above a threshold value, wherein said threshold value is non-specific binding.

2. (unchanged)) The method of claim 1 wherein said probes are oligonucleotides.
3. (unchanged) The method of claim 3 wherein said oligonucleotides are immobilized on a substrate.
4. canceled.
5. (amended) The method of claim 1 ~~claim 4~~ wherein said non-specific binding is measured using a probe ~~designed to contain~~ containing at least one mismatched base.
6. (amended) The method of claim 1 further comprising:
 - c) Identifying a sub-region wherein hybridization of said probes targeting said sub-region ~~sub-regions~~ is similar ~~and, thereby~~ indicating said sub-region as said transcribed region.
7. (unchanged) The method of claim 6 wherein said genome is from a prokaryote.
8. (unchanged) The method of claim 7 wherein said transcribed region is an operon.
9. (amended) The method of ~~claim 8~~ claim 7 wherein said prokaryote is bacteria.